

ABSTRACT

It is intended to provide an electret filter which has a large surface charge density, sustains stable electret properties over a long time even in a high-temperature atmosphere and yet degrades to reduce its volume when buried for disposal; and a process for producing the same. The molar ratio of an L-lactic acid monomer to a D-lactic acid monomer ranges from 100 to 85 : 0 to 15 or 0 to 15 : 85 to 100. An electret filter having a surface charge density of 1.2×10^{-9} C/cm² or more can be obtained by crystallizing by heating at a temperature from the glass transition temperature to the melting point and then, while heating to 60 to 140°C, applying a direct current corona electrical field to thereby cool to 40°C or lower under.